

CLAIMS

1. A window for a vehicle, comprising a glazing (10, 20, 30, 40, 50) including an elastomeric glazing profile (11, 21, 31, 41, 51) disposed around at least part of its periphery on a margin of a face of the glazing, and a mounting flange (5) having an inner edge (8) defining an aperture in a vehicle body, the glazing being inserted in the aperture from outside the vehicle body, characterised in that
- 5 the profile includes a raised portion shaped and positioned to centre the glazing within the aperture during insertion in the aperture by bearing against the inner edge of the mounting flange, and the glazing is bonded to the mounting flange by an adhesive material (4).
- 10 the profile includes a raised portion in the form of a lip (12, 22, 32, 42) extending away from the glazing which, after insertion of the glazing in the aperture,
- 15 extends beyond the edge of the mounting flange of the vehicle body and over the face (19) of the mounting flange which faces away from the glazing.
- 20 Sub A1 > 3. A window as claimed in claim 1 or claim 2, wherein the profile further includes a spacer portion (14, 24A", 54) on the peripheral side of the raised portion, the spacer portion abutting against the mounting flange during installation thereby acting as a stop for the glazing and maintaining the glazing in fixed spaced relationship to the mounting flange.
- 25 4. A window as claimed in ^{Claim 1} ~~any preceding claim~~, wherein the raised portion of the profile is adapted to retain the glazing in a centred position while the adhesive sets.
- 30 5. A window as claimed in ^{Claim 1} ~~any preceding claim~~, wherein the glazing profile further includes a lip (28) on its peripheral side, the base of the lip extending outwards from the glazing, and the body of the lip

SUB A1)

extending in a curve towards a direction perpendicular to the faces of the glazing so that the lip seals against the mounting flange after installation.

6. A window as claimed in ~~any preceding claim~~,
5 wherein the raised portion of the profile is in the form of a curled lip (12, 22, 32, 42) having a base (15, 45) which extends away from the glazing, the remainder of the lip curling over towards the mounting flange.

7. A window as claimed in claim 6, including means
10 (102, 39) of pulling the lip over the mounting flange after insertion of the glazing in the aperture.

8. A window as claimed in claim 7, wherein the means comprises a metal wire (102) provided in a space defined by the lip curling over.

15 9. A window as claimed in claim 7, wherein the means comprises a cord (102) provided in a space defined by the lip curling over.

20 10. A window as claimed in claim 7, wherein the tip of the lip includes a narrow neck portion (38) which joins a bead (39) to the body of the lip, the neck portion being strong enough to allow the lip to be pulled over the mounting flange, but weak enough to allow the bead to detach from the body of the lip as soon as the lip has been pulled over the mounting flange.

25 11. A window as claimed in claim 6, wherein at least one electrical wire is provided in a space defined by the lip curling over.

SUB A2)

30 12. A window as claimed in ~~any one of claims 1 to 5~~, wherein the raised portion (52) of the profile includes a first surface (55) at a first slanting angle to the mounting flange (5) for initial centring of the glazing (50) as it is offered into the aperture during installation, a second surface (56) at a second slanting angle to the mounting flange for maintaining the centred position of the glazing after insertion in the aperture, and a step (57) between the first and second surfaces in which the inner edge (8) of the mounting flange engages

SUB A2) during insertion of the glazing so that the glazing is retained in position relative to the flange.

13. A window as claimed in claim 12, wherein the raised portion of the profile includes a groove (59) 5 extending around the profile in a direction generally parallel to the glazing and on an inward-facing face of the profile.

SUB A3) 14. A window as claimed in Claim 1, ~~any preceding claim~~, wherein the glazing profile comprises a single piece of 10 elastomeric material.

15. A glazing as claimed in Claim 1, ~~any preceding claim~~, comprising a pane of glazing material and an elastomeric glazing profile.

16. A vehicle glazing (10, 20, 30, 40, 50) comprising 15 a pane of glazing material (1) and an elastomeric glazing profile (11, 21, 31, 41, 51) disposed on a margin of a face of the pane around at least part of the periphery of the pane, characterised in that

20 the profile includes a raised portion shaped and positioned to centre the glazing within an aperture in a vehicle body during insertion of the glazing into the aperture from outside the vehicle body, the centring of the glazing being achieved by the raised portion bearing against the inner edge (8) of a mounting flange (5) 25 surrounding the aperture, that the glazing is bonded to the mounting flange by an adhesive (4), and that the raised portion is further shaped and positioned to retain the glazing in a centred position while the adhesive sets.

30 SUB A4) 17. A glazing profile as claimed in ~~any preceding claim~~ Claim 1.

35 18. A seal element applied along the whole internal perimeter of a sheet of glass destined to be glued onto the bodywork of a vehicle by means of adhesive (4), having at least a first elastic seal tongue (48) to lie against said bodywork, which protrudes from the edge of the glass in a direction that is essentially parallel to

the glass, characterised in that it comprises a second tongue (42) on the opposite edge to said first seal tongue (48), said second tongue protruding at the root in a direction that is essentially perpendicular to the 5 glass, and taking on in its end portion the shape of a curl elastically curling over backwards upon itself towards the edge of the glass.

19. A seal element according to claim 18, characterised in that said tongue (42) has different 10 thicknesses (b₁, b₂, b₃) which decrease from the root towards the intermediate portion and from the latter towards the end portion.

20. A seal element according to claim 19, characterised in that the ratio between the thickness 15 (b₂) of said intermediate portion and the thickness (b₃) of said end portion is greater than 1.2 and the ratio between the thickness (b₁) at the root and the thickness (b₂) of the intermediate portion is greater than 1.5.

Sub A5> 21. A seal element according to any one of claims 18
20 ~~to 20~~, further comprising a slot (A) for application of said adhesive (4), characterised in that two beads (A') and (A''), differently spaced with respect to said first seal tongue, border said slot and have a height (a') and (a''), respectively, such as to contain the adhesive 25 during gluing.

22. A seal element according to claim 21, in which the height of said beads (A', A'') is such that the ratio between the height (a') of the bead (A') furthest from said first seal tongue (48) and the height (a'') of the bead (A'') closest to said first seal tongue (48) is greater than 1.

23. A method of glazing a window in a vehicle, including: providing a glazing including an elastomeric glazing profile disposed on a margin of a face of the glazing around at least part of its periphery, and a mounting flange having an inner edge defining an aperture 35 in a vehicle body, applying a bead of adhesive material

to the glazing or the mounting flange, offering the glazing to the aperture from outside the vehicle body, including centring the glazing relative to the aperture as it is inserted, characterised by centring the glazing by means of a raised portion of the glazing profile shaped and positioned to bear against the inner edge of the mounting flange.

24. A method as claimed in claim 23, wherein the raised portion of the profile retains the glazing in position while the adhesive sets.

SUB A6 > 25. A method as claimed in claim 23 ~~or 24~~, wherein the raised portion includes a lip, the method additionally including pulling the lip over the mounting flange.

ADD A7 > 26. A method of centring a glazing relative to an aperture in a vehicle body as claimed in claim 23.